

Graham Fire

Incident Action Plan TRANSITION

06/27/2018 – 07/01/2018

0700-1900

OR-955S-000420



ODF – 955128-18

BLM – LWJ9

FS – PNLWJ9 (1502)

ICS-202 INCIDENT OBJECTIVES

1. Incident Name

Graham Fire

2. Date Prepared

6/26/2018

3. Time Prepared

1800

4. Operational Period

TRANSITION

06/27 - 07/01

0700-1900

5. General Control Objectives for the Incident (include alternatives)

1. Maintain firefighter and public safety as the highest priority by assuring adequate briefings and implementing the mitigation measures in the LCES 215A.
2. Ensure Mop-Up standards are met and suppression repair work is maintained or improved as necessary.
3. Implement operations with due consideration toward financial efficiency.
4. Work in a cooperative manner with all landowners and cooperators through encouraging open communication and listening to concerns.
5. Adjust to changing conditions to efficiently meet the needs of the incident.

6. Weather Forecast for Period

See attached weather forecast.

7. General Safety Message

See attached safety message.

8. Attachments (mark if attached)

☒ Organization List - ICS 203

☒ Fire Weather Forecast

☒ Incident Map

☒ Div. Assignment Lists - ICS 204

☒ Fire Behavior Forecast

☒ Mop Up Standards

☒ Communications Plan - ICS 205

☒ Air Operations Summary - ICS 220

☒ Suppression Repair Plan

☒ Medical Plan - ICS 206

☒ Safety Message

9. Prepared by

10. Approved by

Colleen Kiser ResL

CL-CL

6/26/18

ICS-203 Organizational Assignment List

Graham Fire

2. DATE PREPARED

6/26/2018

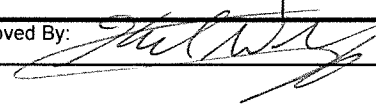
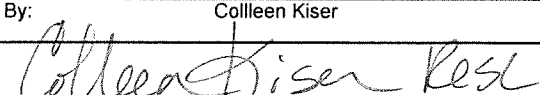
3. TIME PREPARED

1800

TRANSITION

06/27 - 07/01

0700-1900

Position	Name	Position	Name
5. Incident Commander & Staff		9. Operations Section	
Incident Commander(s)	Blair, Allison (541)231-9827	Chief	
Incident Commander(s)	Webb, Alexis (t)		
Line Medic	Miller, Brandon	9a. Branch I Divisions/Groups	
Public Information Officer		Branch Director	
Liasion Officer		Deputy	
		Division/Group	
		Division/Group	
		Division/Group	
		Division/Group	
		Division/Group	
		Division/Group	
		Staging Area Manager	
6. Agency Representatives		9b. Branch III Divisions/Groups	
Agency	Name	Branch Director	
ODF	Shaw, Mike	Deputy	
ODF (deputy)	Foster, Gordon	Division/Group	
Prineville BLM	Dean, Bill	Division/Group	
BLM READ	Craig, Terry	Division/Group	
		Division/Group	
		Division/Group	
		Division/Group	
		Staging Area Manager	
7. Planning Section		9c. Branch III Divisions/Groups	
Chief		Branch Director	
Plans Assistant/Demob		Deputy	
Resources Unit		Division/Group	
Situation Unit		Division/Group	
GISS		Division/Group	
FBAN	Zimmerlee, Boone	Division/Group	
		Staging Area Manager	
8. Logistics Section		9d. Air Operations	
Chief	Wrolson, Tracy	Helicopter Manager	Foster, Kelly
Assistant		Air Attack Supervisor	
		Air Support Supervisor	
		Helicopter Coordinator	
		Air Tanker Coordinator	
Support Branch		10. Finance Section	
Director		Chief	Wrolson, Tracy
Supply Unit		Chief Trainee	
Ground Support Unit		Time Unit	
		Procurement/Cost Unit	
Service Branch			
Director			
Communications Unit			
Food Unit			
Prepared By:	Colleen Kiser	Approved By:	
			

ICS-204 Division Assignment List

3. Incident Name Graham Fire	1. Branch	2. Division/Group
TRANSITION	06/27 - 07/01	0700-1900

5. Operations Personnel

Incident Commander	Blair, Allison	Incident Commander (T)	Webb, Alexis
Line Medic	Miller, Brandon	Helicopter Manger	Foster, Kelly

6. Resources Assigned this Period

Strike Team/Task Force Resource Designator	Leader	Number Persons	14th Day	Comments
O-46 TFLD	Simmons, Russell	1		
O-78 CRWB	Bush, John	1		ONLY 6/27
O-84 CRWB	Scott, Josh	1		ONLY 6/27
O-11.20 CRWB	Pellissier, John	1		6/28 - 7/1
O-11.7 CRWB	Flock, Matt	1		6/28 - 7/1
C-12 HCM Deer Ridge #1		10		
C-13 HCM Deer Ridge #2		10		
E-24 ENG6 ODF 8154 Klamath	Judkins, Jared	2		Petersen, Patick
E-25 ENG6 ODF 7463 Wallowa	Fulfer, Olan	3		Croswell, Jerad , Robersts, Carsyn
E-42 ENG6 ODF Tillamook	Patton, Dominic	2		Butler, Cameron
E-43 ENG6 ODF S.Cascade	Wilson, Craig	2		Moretti, Thayne
E-510 ENG6 ODF 7362 Pendleton	Royse, Dustin	3		Johnson, Kyle, Dally, Morgan
E-511 ENG6 ODF Astoria	Lopez, Andres	2		Valencia, Cody
Line Medic	Miller, Brandon	1		

7. Control Operations

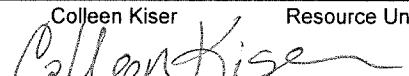

Continue to mop up utilizing attached "Mop Up Standards."
Ensure suppression repair work is maintained or improved as necessary.

8. Special Instructions

*Three Rivers subdivision gate code 57030#. Notify Lake Billy Chinook Fire District Fire Chief when access is no longer needed.

9. Division/Group Communication Summary

Function	Frequency	Tone	Channel	Function	Frequency	Tone	Channel
Command TX	159.2925	162.2	1	Logistics			
RX	151.1750						
Tactical Div/Group	151.3400	156.7	2	Air to Ground	169.2875		14

Prepared by: Colleen Kiser Resource Unit Leader

 Approved by:  Plans Section Chief

Incident Radio Communications Plan	1. Incident Name: GRAHAM FIRE	2. Date/Time Prepared: 6/26/2018 / 10:00	3. Operational Period: TRANSITION
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4. Basic Radio Channel Utilization --

System/Cache	Portable Channel	Function	Frequency	Assignment	Remarks
ODF	1	Repeater	Rx 151.1750 Tone 162.2 Tx 159.2925 Tone 162.2	ODF Grizzly	Central Oregon Interagency Dispatch
ODF	2	Tactical	Rx / Tx 151.3400 Tone 156.7	RED Net	
USFS	3	Repeater	Rx 171.4750 Tone 103.5 Tx 164.7875 Tone 167.9	Black Butte	Central Oregon Interagency Dispatch
USFS	4	Tactical	Rx / Tx 167.6500	DEF TAC 2	
USFS	5	Tactical	Rx / Tx 166.8875	DEF TAC 1	
USFS	6	Repeater	Rx 170.4750 Tone 103.5 Tx 163.1625 Tone 192.8	AWBREY	Central Oregon Interagency Dispatch
SISTERS RFD	7	Repeater	Rx 154.4150 Tx 150.8050 Tone 167.9	NW FIRE	Sisters Fire Department
RURAL RFD	8	Tactical	Rx / Tx 153.8300 Tx Tone 127.3	TAC 8	Mutual Aid Tactical
BEND RFD	9	Repeater	Rx 154.1450 Tone 91.5 Tx 153.7700 Tone 127.3	BEND RFD	Bend Fire Department
ODF NICS	10	Tactical	Rx / Tx 159.2400 Tone 156.7	TAC 9	Mutual Aid Tactical
BILLY CHINOOK RFD	11	Tactical	Rx / Tx 154.2050	LC TAC 1	LAKE BILLY CHINOOK RURAL
BILLY CHINOOK RFD	12	Repeater	Rx 154.9950 Tone 162.2 Tx 159.3600 Tone 192.8	LC GRYB	LAKE BILLY CHINOOK RURAL GRAYBACK REPEATER
USFS	13	Air to Ground	Rx / Tx 167.3000	A/G 37	OR 03
USFS	14	Air to Ground	Rx / Tx 169.2875	A/G 61	OR 03
ODF	15	Tactical	Rx / Tx 151.3100 Tone 156.7	WHITE NET	ODF TAC
ODF	16	Tactical	Rx / Tx 172.2250 Tone 156.7	GREEN NET	ODF TAC

5. Prepared by: LeRoy E. Dwire (COML)

All frequencies are narrowband analogue.

Prepared By:	Neal Laugle	Prepared Date/Time:	6/26/2018 17:30
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[illegible]

6. PERSONNEL		Phone	7. FREQUENCIES		AM	FM	8. FIXED-WING (# Avail / Type/ Make-Model / FAA N# / Bas
HEMG	Kelly Foster	1 503 586-6944	A/A Fixed Wing				Airtankers T-870 T-827 AT-802 Pineville SEAT Base 09:00
			A/A Rotor Wing				
			AIR/GROUND- 1	AG-61	169.2875		Leadplanes
			tx/rx tone				
			AIR/GROUND- 2				ATGS
			tx/rx tone				Aircraft
			Secondary A_A				
			TOLC and DECK			163.100	

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Spot Forecast for Graham

202 PM PDT Tue Jun 26 2018

Winds are 20 foot 10-minute averages

CWR-Chance of wetting rain 0.10 or greater

.DISCUSSION...Dry conditions with winds remaining under breezy levels can be expected today. A dry cold front will cross the area late Wednesday, resulting in breezy to locally windy conditions. The lowest RH's will occur before the greatest winds, thus red flag conditions are unlikely. Dry conditions and periods of breezy conditions will prevail for late week into the upcoming weekend.

.WEDNESDAY...

Sky/weather.....Sunny.
CWR.....0 percent.
LAL.....1.
Max temperature.....78-82.
Min humidity.....18-22 percent.
Wind (20 ft).....Variable winds less than 4 mph early, becoming
northwest 7 to 11 mph with gusts to 15-20 mph
in the afternoon.
Ridgetop wind.....Light winds becoming northwest 9 to 14 mph in
the afternoon.
Mixing height.....Near surface increasing to 6000-6500 ft AGL.
Transport winds.....Northwest 3 to 6 mph increasing to 10-15 mph
in the afternoon.
Haines Index.....3 (very low).

.WEDNESDAY NIGHT...

Sky/weather.....Partly cloudy.
CWR.....0 percent.
LAL.....1.
Min temperature.....45-49.
Max humidity.....70-75 percent.
Wind (20 ft).....Northwest winds 10 to 15 mph with gusts to 20-25 mph
in the evening, decreasing to 5 to 8 mph after midnight.
Ridgetop wind.....Northwest winds 12 to 18 mph with gusts to 25 mph
in the evening, decreasing to 6 to 9 mph after midnight.
Mixing height.....5500-6000 ft AGL decreasing to 500-1000 ft AGL.
Transport winds.....Northwest 15 to 20 mph, decreasing to 8 to 12 mph after
midnight.
Haines Index.....2 (very low).

.Forecast days 2 through 6.....

.THURSDAY...Partly cloudy. Lows 41 to 46. Highs 66 to 79.

Northwest winds 6 to 12 mph.

.FRIDAY...Mostly clear. Lows 40 to 48. Highs 66 to 75. Northwest winds 6 to 12 mph.

.SATURDAY...Mostly clear. Lows 40 to 47. Highs 68 to 78.

Northwest winds 5 to 11 mph.

.SUNDAY...Mostly clear. Lows 42 to 49. Highs 71 to 80. West winds 3 to 8 mph.

.MONDAY...Mostly clear. Lows 43 to 48. Highs 73 to 80. West winds 3 to 8 mph.

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 5

TYPE OF FIRE: Wildland


FIRE NAME: Graham

OPERATIONAL PERIOD: 6/27-7/01/2018

DATE ISSUED: 6/26/2018

TIME ISSUED: 20:00

UNIT: ODF-COD

SIGNED:  Boone Zimmerlee

INPUTS

WEATHER SUMMARY:

A dry cold front will pass over on Wednesday into Thursday, bringing higher winds with gusts near 20 in the afternoons. The weather following the cold front will be dry and breezy.

*If the weather becomes un-represented consider obtaining spot forecast and re-evaluating fire behavior potential.

	Wednesday	Thursday	Friday	Saturday	Sunday
Date	06/27/2018	06/28/2018	06/29/2018	06/30/2018	07/01/2018
Temp	78-82	66-79	66-75	68-78	71-80
RH	18-22	30	~28	~28	~23
Wind Dir	NW	NW	NW	NW	NW
Speed	9-14	6-12	6-12	5-11	3-8
Gusts	15-20	~20			

OUTPUTS

FIRE BEHAVIOR

GENERAL:

As we continue into the fire season ERC's for the local Fire Danger Rating Area (Monument) will continue to be well above average, 29, while this has not crossed into "Extreme" this is right at the record maximum for the 13 year analysis period for this time of year. This trend of increasing ERC is expected to continue as we progress into the season. Dead fuels remain available to burn, live fuels in transition becoming available each day contributing some to fire behavior. Light flashy fuels have been the primary carrier of the fire. Fuels in the fire area are composed of Juniper, few Ponderosa pine, with intermixed grasses and shrubs.

If there is a new start:

Potential fire behavior will include rapid growth in grasses, long flaming fronts are possible where continuous fuels are present. Torching that leads to spotting will be restricted to areas where ladder fuels are present and/or have a dead to live ratio that is weighted to the dead fuels. Gusts of wind will have significant effects on rates of spread. Runs that are driven by gusts can change behavior very rapidly and unexpectedly.

Fire Behavior Outputs:

Use the table below to find your approximate current weather and the correlating fire behavior potential.

Rate of Spread (Ch/Hr)

Flame Length (')

Spotting Distance (miles)

Air Temp	20-ft Wind Speed (upslope)		
oF	5	10	20
70	11.6	31.6	102.8
75	11.6	31.6	102.8
80	11.6	31.6	102.8

Air Temp	20-ft Wind Speed (upslope)		
oF	5	10	20
70	3.8	6.1	10.4
75	3.8	6.1	10.4
80	3.8	6.1	10.4

Air Temp	20-ft Wind Speed (upslope)		
oF	5	10	20
70	0.1	0.2	0.4
75	0.1	0.2	0.4
80	0.1	0.2	0.4

SPECIFIC:

Division A

Stump holes and heavy fuels in the interior will continue to burn and produce smoke in the pines. Pitchy stumps along the West line will be a source of continued smoke. Along Graham road unexposed fuels will continue to smolder until opened and worked. Duff layers can insulate burning fuels hiding hot spots under the pines until exposed.

Division C

Accumulations of fuels buried deep in cracks in the rocks can hold heat and slowly burn going unnoticed. Heart rot in Junipers will continue to burn and fall over. Junipers that fall on hot spots can instantly ignite and send embers down wind.

Division Y

Many of the same conditions found in DIV C will exist. Accumulations of organic matter buried in rocks has the ability to burn unnoticed beneath the rocks staying sheltered from the Cool Night Air (CNA). This condition could lead to rekindle of areas that were previously worked.

SAFETY

Changing weather and fuels conditions can slowly take effect over time and go unnoticed. Continual re-evaluation will be needed over the next few shifts be sure to re-evaluate weather and fuels conditions daily.

MEDICAL PLAN	1. INCIDENT NAME <div style="text-align: center;">GRAHAM</div>	2. DATE PREPARED <div style="text-align: center;">06/26/18</div>	3. TIME PREPARED <div style="text-align: center;">1139</div>	4. OPERATIONAL PERIOD <div style="text-align: center;">06/27-7/01</div>				
5. INCIDENT MEDICAL AID STATIONS								
MEDICAL AID STATIONS	LOCATION	PARAMEDICS						
		YES	NO					
AMR Line Medic	Graham Fire	X						
6. TRANSPORTATION								
A. Air Ambulances								
NAME	ADDRESS	PHONE	PARAMEDICS					
			YES	NO				
Life Flight	Redmond, Or	800-232-0911	X					
Air Link	Bend Or	541-233-6355	X					
B. Ground Ambulances								
Jefferson County EMS (45 min travel to rendezvous)	765 SE 5 th Street Madras	911	X					
Redmond Fire Rescue	Redmond Or	911	X					
Sisters-Camp Sherman RFPD (ICP)	301 S Elm St, Sisters, OR 97759	911	X					
7. HOSPITALS								
NAME	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
		AIR	GRND		YES	NO	YES	NO
St Charles Redmond Lv 3	1253 NW Canal Blvd, Redmond	10	40	541-548-8131	X			X
St Charles Bend Lv 2	2500 NE Neff Rd Bend	20	75	541-382-4321	X			X
Emanuel Burn Center	Portland Or	35	3 hrs	503-413-4232	X		X	
8. MEDICAL EMERGENCY PROCEDURES								
<p>1. LINE EMERGENCY: Crew Supervisor to contact Division Supervisor with patient complaint/condition and location.</p> <ul style="list-style-type: none"> • Division Supervisor contacts: <ul style="list-style-type: none"> • Line EMT / PM • Communications Unit • Communication Unit will clear command channel for emergency traffic • Communications Unit contacts: <ul style="list-style-type: none"> • Medical Unit • Safety • Operations • Division Supervisor will run medical emergency on command channel • Medical Unit will: <ol style="list-style-type: none"> 1. Dispatch ground ambulance to nearest drop-point for ground transport only. 2. Or after patient pickup, dispatch ambulance to Helibase for Medical AIR EVAC Flight if needed 3. Notify receiving hospital of injury status. <p>1. CAMP EMERGENCY: Contact Medical Unit with patient complaint/condition and location. Medical Staff will respond to stabilize incident:</p> <ul style="list-style-type: none"> • Medical Unit contacts: <ol style="list-style-type: none"> 1. Communications 2. Safety 3. Logistics 4. Operations 5. Crew Supervisor <p>7. INCIDENT COMMUNICATIONS:</p> <ul style="list-style-type: none"> • Command: ODF Grizzly • Air to Ground: AG/61 					<p style="text-align: center;"><u>INJURY REPORTING PROCEDURES</u></p> <p>2. EMERGENCY IC _____</p> <p>IS A EMT WITH PATIENT: YES ____ NO ____</p> <p>IS A PARAMEDIC WITH PATIENT: YES ____ NO ____</p> <p>3. NATURE OF INJURY _____</p> <p>AGE ____ WEIGHT ____ SEX: MALE ____ FEMALE ____</p> <p>CONSCIOUS? YES ____ NO ____ BREATHING? YES ____ NO ____</p> <p>PATIENT UNIT ID _____</p> <p style="text-align: center; font-size: small;">REMINDER: DO NOT GIVE PT NAME OVER RADIO</p> <p>4. ____RED-URGENT____YELLOW-PRIORITY____GREEN-ROUTINE</p> <p>5. TRANSPORTATION REQUESTED BY: AIR ____ GROUND ____</p> <p>6. ADDITIONAL NEEDS _____</p> <p>8. LOCATION OF PATIENT _____</p> <p style="text-align: right; font-size: small;">Division, closes DP</p> <p>POINT OF PICKUP _____</p> <p>LAT ____ LONG ____</p> <p>9. CONTINGENCY _____</p>			
ICS 206 5-17		9. PREPARED BY (MEDICAL UNIT LEADER)			10. REVIEWED BY (SAFETY OFFICER) Kirk Ausland, SOF1			

INCIDENT RISK ANALYSIS (ICS 215a)

DIV	HAZARDOUS ACTIONS / CONDITIONS	MITIGATIONS / WARNINGS / REMEDIES
ALL	SNAG HAZARDS	<ul style="list-style-type: none"> Follow Hazard Tree Safety Guidelines (IRPG p. 22). Limit number of personnel around snags and their exposure time; fallers must be qualified for trees being fallen. Be especially alert around snags during wind events. Maintain Situational Awareness.
ALL	DRIVING HAZARDS	<ul style="list-style-type: none"> Drive defensively! Expect the unexpected around every curve. Drive with headlights on; use chock blocks, keep windshields clean; look before backing; and use backers whenever available. Be alert for wildlife, heavy trucks, & high speed opposing and over-taking traffic. Check traffic approaching from behind when making left turns. Increase following distances on dusty roads. Slow down when you meet opposing traffic or encounter washboard surfaces. Maintain Situational Awareness, secure loads.
ALL	FIRE BEHAVIOR	<ul style="list-style-type: none"> Monitor current weather conditions and forecasts. Make sure all personnel receive thorough briefings every shift Maintain adequate escape routes and safety zones. Advise all personnel if these are compromised or changed. Set trigger points when appropriate. Adhere to 10 Std Orders, mitigate 18 situations. Maintain Situational Awareness.
ALL	FATIGUE/HEAT RELATED	<ul style="list-style-type: none"> Drinking water before, during and after shifts, up to 1.5 gal. per shift. Be alert for signs of heat stress in yourself and others. Limit caffeinated drinks. Monitor pre-existing conditions which can exacerbate dehydration.
ALL	AIRCRAFT OPERATIONS	<ul style="list-style-type: none"> Use qualified personnel for long-line operations. Keep others clear of the operation. Keep personnel out of drop zones when bucket work in progress. Use air-to-ground frequency to communicate with aircraft. Use clear, concise statements when directing aircraft. Use clock directions from pilot's perspective. Don't engage in "heli-mopping". Eliminate unnecessary pilot exposure.
ALL	POISONOUS INSECTS, SNAKES	<ul style="list-style-type: none"> Identify, avoid, and get treatment for any bites or stings or rashes. Use caution (for bees, wasps, etc.) when drinking from opened cans.
ALL	STEEP TERRAIN AND ROLLING MATERIAL	Watch your footing; take your time; ensure adequate spacing between crewmembers; post lookouts to warn of rolling debris.

ALL	SAFETY ZONES	<ul style="list-style-type: none">Follow safety zone guidelines (IRPG p. 8)Carefully evaluate burned areas before designation as safety zones due to spot burning in numerous areas.When safety zones are distant from work site, set trigger points to allowing personnel to reach them in a timely manner.	
INCIDENT NAME: Graham		DATE PREPARED: June 26, 2018	OPERATIONAL PERIOD 06/27-07/01 Prepared by Kirk Ausland, SOF1
ICS 215a		TIME PREPARED: 1216 hours	

HEALTH AND SAFETY MESSAGE

SAFETY starts with ***YOU***

We are **ALL** accountable for **SAFE** behaviors

INCIDENT: Graham Fire

DATE: 06/27-07/01

Oper. Period: Day

Major Hazards and Risks:

- **SITUATIONAL AWARENESS & RISK MANAGEMENT PROCESS**
(Use page 1 of IRPG).
- **Driving:** narrow roads, public travel within fire perimeter, and high speed two-lane highway.
- **Terrain:** steep rocky ground, unstable footing.
- **Rolling Debris:** watch-out for loose rocks.
- **Dehydration:** heat and work = exhaustion (don't let it become heat stress, keep adding fluids to internal radiator)
- **Rattlesnakes:** avoid

Fire Order of the Day:

Maintain control of your forces at all times

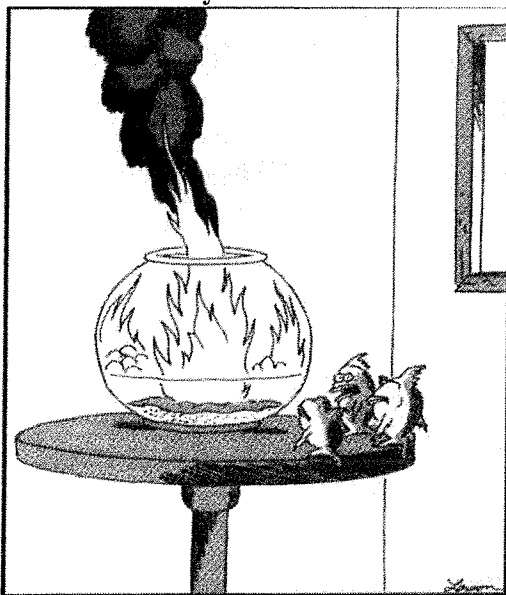
- **TASK.....**What is to be done.....Strategy and tactics
- **PURPOSE.....**Why it is to be done.....Big picture.....who, what, when, where, why, etc.....
- **END STATE.....**How it should look when done....Quantify your expectations.....Leaders Intent

MANAGE FATIGUE

REMEMBER -- FATIGUE IS CUMULATIVE!!!!

- ☐ Adequate Rest? ☐ Overwhelmed (in over your head)?
- ☐ Proper Nutrition? ☐ Driving too far?
- ☐ Personal Hygiene? ☐ Been out way to many days?
- Complete the checklist for yourself. Be honest.**
- Make sure all systems are GO today.**

**** Check out Today's 6 Minutes for Safety ****



"Well, thank God we all made it out in time. ...
'Course, now we're equally screwed."



Wear It! & Wear it Right!



Safety & Health Working Team



CENTRAL OREGON DISTRICT

GRAHAM FIRE

MOP UP STANDARDS

June 25, 2018

The following are the mop up standards for Oregon Department of Forestry protected lands involved in the Graham Fire on the Central Oregon District of Oregon Department of Forestry. Mop up standards are based on the threat to containment lines under worse-case scenario. At no time shall firefighter safety be compromised to meet these standards.

All hazards associated with these mop up standards will be mitigated based on experience and deference to firefighter expertise prior to implementing these standards.

- I. 100% mop up into hard black, a minimum 100 feet in grass fuels.
- II. 100% mop up all spot fires. Including the slope over on Graham Rd in Div A.
- III. 100% mop up a minimum of 300 feet on any dirty burn areas and areas of higher fuel concentrations.
- IV. 100% mop up a minimum of 100 feet of unburnt islands within control lines
- V. 100% mop up within 100 feet of structures.
- VI. Spread back and 100% mop up berms along all control lines.
- VII. Complete felling of all snags and fire damaged trees a minimum of 300 feet that have been identified as a safety concern or have the potential to cause spotting outside of control lines.
- VIII. Complete cleanup of unnecessary items along fire perimeter (tools, hose, trash, etc.) on all lands protected by the Oregon Department of Forestry. The backhaul of unnecessary equipment and trash should be completed by the time of transition to the district organization.

FIRE SUPPRESSION REPAIR PLAN

Graham Fire
June 26, 2018

The Oregon Department of Forestry's responsibility for fire suppression repair is outlined in the Emergency Fire Cost Committee's Directive 1-2-7-001, page 26, and copied below.

N. Property Damage - Land Rehabilitation

1. Eligible Costs

Incidental water barring of fire trails before equipment is removed from a fire area is not considered rehabilitation work and may be included in the cost of firefighting equipment.

2. Ineligible Costs

- a. *The costs of repairing damage to property or equipment, either as a result of fire action or negligent acts, are not eligible.*
- b. *Costs of land rehabilitation are not eligible.*

This suppression repair plan covers actions necessary to repair suppression related impacts on the Graham Fire, in the Prineville Unit of the Central Oregon District. The following will be completed:

GENERAL

- Remove and properly dispose of all garbage and litter from control lines, roads, drop points, staging areas.
- Flagging, transportation route signs, and other fire signage will be removed on an ongoing basis. Complete removal will occur upon completion of mop-up activities by transition team.
- All firefighting equipment not necessary for future mop-up and patrol will be removed. Equipment to be left on the line will be negotiated with the Central Oregon District and documented in the transition plan.

FIRELINES – FUEL BREAKS – SAFETY ZONES – STAGING AREAS

- Waterbar all control lines (dozer and handlines) as appropriate to control soil erosion and to protect water quality. Steep handline sections should have cross drainage provided for every 10 feet of vertical elevation change.
- Use judgment in placing waterbars to properly facilitate drainage. Where feasible, drain waterbars away from burn and into brush or natural vegetation areas.
- Do not install waterbars at more than a 45 degree angle. Steeper slopes generate the need for waterbars near 45 degrees.
- Ensure waterbars are cut into fresh soil deep enough to be effective.

General Guidelines for Waterbar Spacing

Fire Line Slope	Maximum Spacing
1-6%	300 ft.
7-9%	200 ft.
10-14%	150 ft.
15-20%	90 ft.
21-40%	50 ft.
41-60+%	25 ft.

- On steep slopes where machine activity can't place waterbars effectively or would cause additional disturbance, provide hand constructed waterbars.
- Remove any fill or excess side-cast pushed into or immediately adjacent to streambeds or dry streambed channels.
- Waterbar approaches to stream crossings, including dry stream bed approaches.
- Berms created by dozer control actions and access routes should be back-bladed only where excessive and may cause water drainage problems.
- Safety zones, fuel breaks and staging areas that were cleared by dozer should be drifted or back-bladed to remove excessive berms. Reshape to natural contour of land to promote water drainage. Waterbar as necessary to prevent erosion.

ROADS

- Roads opened and utilized for fire suppression activities will, as a minimum, be crossed drained as necessary for effective erosion control. Roads shall remain open and travelable.
 - Pre-existing, reopened, and new roads should be stabilized to protect water quality and road surface material.
 - Roads that were opened or constructed for fire suppression activity may be closed if not needed for continued containment and patrol.
 - Roads will not be returned to pre-fire condition, resurfaced, vacated, rebuilt, or otherwise improved as part of fire suppression repair.

PUMP SITES

- Remove any structures or developments. Block public access if desired by landowner. Provide drainage sufficient to protect water quality and prevent erosion.

FENCE SUPPRESSION ACTION DAMAGE

- Fence lines damaged (cut) by suppression action will be identified and repaired.

SPECIAL CONSIDERATIONS SECTION

None

LOGISTICAL INFORMATION

Lodging: Cove Palisades State Park (D Loop)

Food: Beetle Bailey Burgers, 403 1st Ave, Culver, OR
Restaurant Hours 7am to 8 pm (Breakfast & Dinner)
Pick up sack lunches daily

Briefings: Starting 8/28 briefing location Lake Chinook Fire
Dept. @ 0830

Transition

Graham Fire

OR-955S-420

IAP Map



IAP



Vicinity Map



